

NITRO[®]

LiFePO4

LITHIUM IRON PHOSPHATE BATTERY

NLI-6V54F1

SPECIFICATIONS

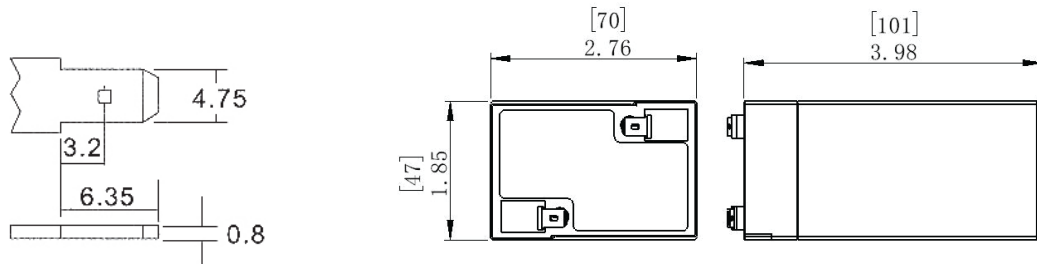
Nominal Voltage	6.4V
Rated Capacity	5.4Ah @0.5C
Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short
Cycle Life	3000 times cycles @100%DOD and 6000 times @80% DOD
Monthly Self Discharge	<3%
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96~100% @1C
Charge Voltage	7.2±0.2V
Standard Charge Current	1A
Max Charge Current	2.7A
Standard Discharge Current	3A
Max. Continuous Current	6A
Discharge Cut-off Voltage	5V
Charge Temperature	0°C to 55°C (32°F to 131°F) @60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C (-4°F to 140°F) @60±25% Relative Humidity
Storage Temperature	-20°C to 45°C (-4°F to 113°F) @60±25% Relative Humidity
Case / IP class	Plastic case
Dimensions	70 mm X 47 mm X 101 mm ±1
Total Weight (approx.)	0.7Kg
Terminal	T1



FEATURES

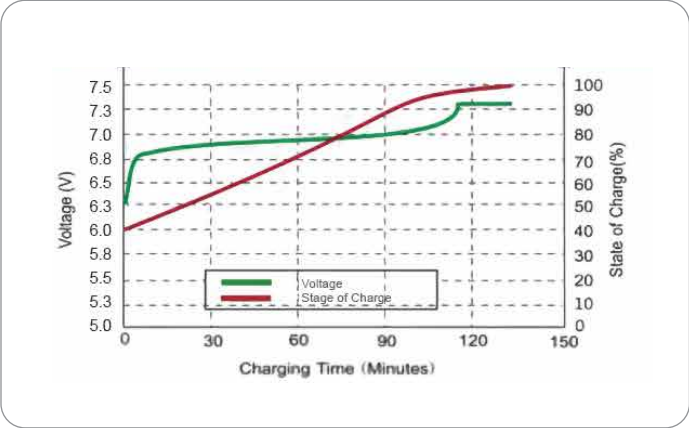
- **LONGER CYCLE LIFE:**
Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **LIGHTER WEIGHT:**
About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **HIGHER POWER:**
Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **WIDER TEMPERATURE RANGE:**
-20°C~60°C.
- **SUPERIOR SAFETY:**
Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

DIMENSIONS

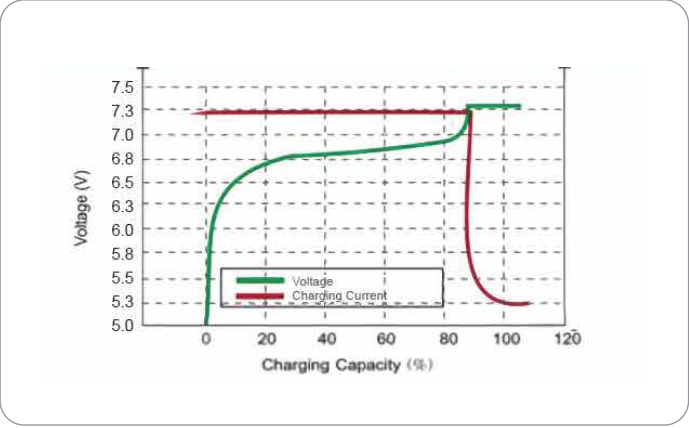


PERFORMANCE CHARACTERISTICS

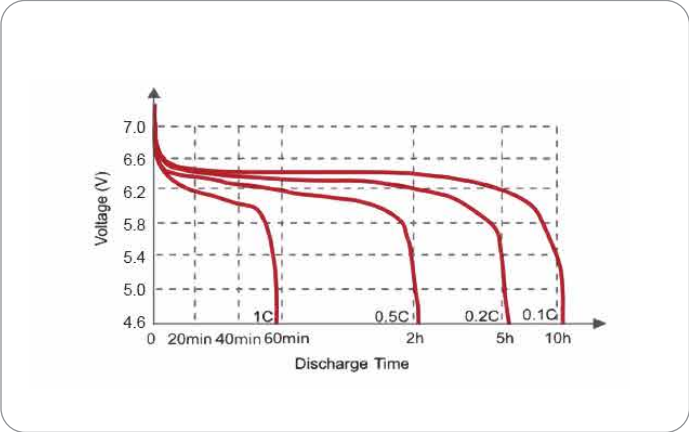
Different Rate Discharge Curve (25°C)



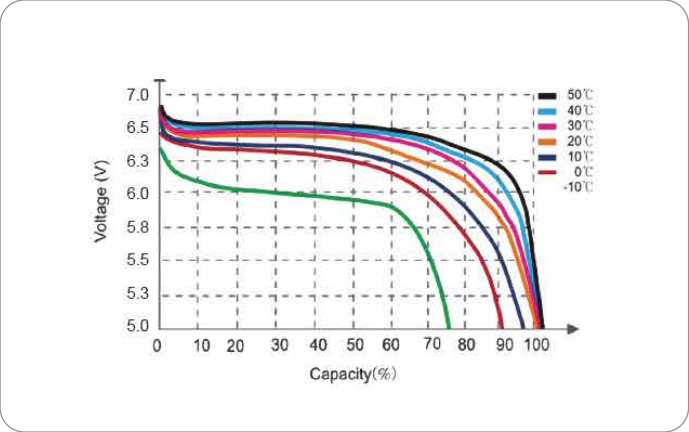
Different Temperature Discharge Curve (0.5°C)



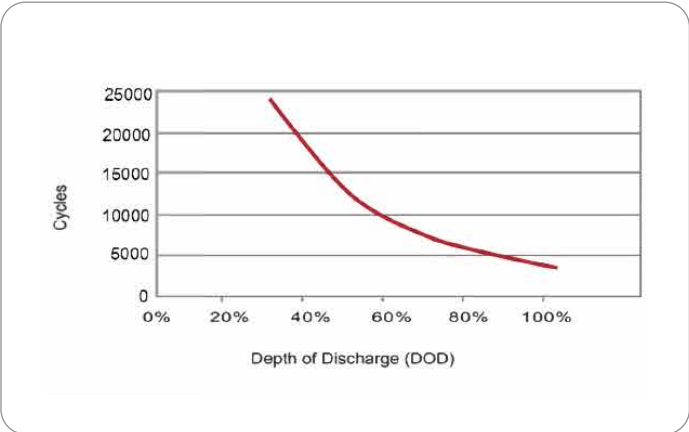
State of Charge Curve (0.5°C, 25°C)



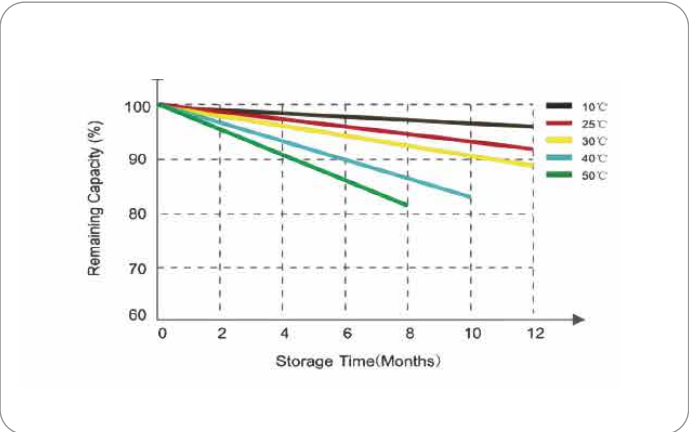
Charging Characteristics (0.5°C, 25°C)



Different DOD Discharge Cycle Life Curve (1°C)



Different Temperature Self Discharge Curve



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